INDEX TO VOLUME XVIII

ALLEE, W. C., 195, 365

AMATRUDE, CATHERINE S., 332

Antigenic relationships in the genus *Tetrahymena*, 415

ARONSON, LESTER R., 403

Atmospheric humidity, the effects of, on animal life, 103

BEACH, FRANK A., 390

BEEMAN, ELIZABETH A., 195

BEERS, C. D., 80

Behavior of melanoblasts derived from the coelomic lining in interbreed grafts of wing skin, 1

BOND, CHARLOTTE R., 52

BRADDOCK, JAMES CONGER, 176

BROOKS, MATILDA MOLDENHAUER, 431

BROOKS, S. C., 431

BROWN, FRANK A., 433

Chemistry and Physical Hormones, The, by Forest Ray Moulton (ed.), 330

CHILD, C. M., 250

Chimaeric feathers of breast-saddle origin in the Brown Leghorn capon, experimental alteration of growth rate in, 335

Cichlid fish, *Tilapia macrocephala*, influence of the stimuli provided by the male, on the spawning frequency of the female, 403

CIESLAK, EDWIN S., 229

COLE, LEON J., 167

COLLIAS, N. E., 365

CONDRIN, JOHN M., 162

COSGROVE, W. B., 425

DANIELLI, JAMES FREDERIC, 222

DAVSON, HUGH, 222

DEWEY, VIRGINIA C., 136, 415

Dominance-subordination relationship in the fish *Platypoecilus maculatus*, some aspects of the, 176

Ebony: a gene affecting the body color and fecundity of *Tribolium confusum* Duval, 35

Elektrophysiologie, Vol. I: *Allgemeine Elektrophysiologie;* Vol. II: *Spezielle Elektrophysiologie*, by Hans Schaefer, 433

Embryology of Behavior, The, by Arnold Gesell, in collaboration with Catherine S. Amatruda, 332

Excystment in the ciliate *Tillina magna*, some factors affecting, 80

FINLEY, HAROLD E., 167

Flecking in the domestic pigeon, effects of X-rays upon, 167

Frogs eggs (*Rana pipiens*), some group effects on the rate of cleavage and early development of, 16

GAUNT, ROBERT, 330

GESELL, ARNOLD, 332

GIESE, ARTHUR C., 158, 223

GINSBURG, BENSON, 35

Growth of the ciliate *Tetrahymena geleii*, mineral deficiency as a factor limiting, 425

GUHL, A. M., 365

HALL, R. P., 425

Hamster, the golden (*Cricetus auratus*): care, breeding, and growth, 52

Hibernation in the chipmunk, physiological studies on, 162

HOROWITZ, SHIRLEY, 35

JACOBS, M. H., 431

KIDDER, GEORGE W., 136, 415

LUDWIG, DANIEL, 103

MCGANN, VIRGINIA G., 415

Mating behavior in the male rat, bisexual: effects of castration and hormone administration, 390

Mating behavior and the social hierarchy in small flocks of White Leghorns, 365

MERWIN, RUTH, 16

Metabolism of *Taenia taeniaeformis*, studies on, 60

METZ, C. W., 100

Mitosis, by Franz Schrader, 100

MOULTON, FOREST RAY, 330

New Books in physiological zoölogy, 100–102; 222; 330–34; 431–33

Oxidation-reduction patterns in ciliate protozoa, 250

Paramecium, a simple method for division-rate determination in, 158

PARK, THOMAS, 35

PARPART, A. K., 222

Permeability of Living Cells, The, by S. C. Brooks and Matilda Moldenhauer Brooks, 431

Permeability of Natural Membranes, The, by Hugh Davson and James Frederic Danielli, 222

RAWLES, MARY E., 1

SCHAEFER, HANS, 433

SCHRADER, FRANZ, 100

Snake, *Thamnophis radix*, relations between the reproductive cycle and the pituitary gland in the, 299

STUART, C. A., 415

Tetrahymena, studies on the biochemistry of. III. Strain differences, 136

Thiamin on the winning of social contacts in mice, some effects of, 195

Ultraviolet radiations and life, 223

WANG, HSI, 335

WILMOTH, JAMES H., 60

WINDLE, WILLIAM F., 332

WOODWARD, ALVALYN E., 162